Material Safety Data Sheet

1. Product and Company Identification

Material name CH204A

Use of the preparation Inkjet printing.

Version # 01

Revision date 04-03-2009

CAS # Mixture

Synonym(s) ColorSpan 0900461-003

Company identification

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Date prepared Apr 03, 2009

MSDS number 377902

2. Hazards Identification

Emergency overview Contains Humectant; Contact with eyes may cause irritation.

Acute health effects

Skin contact Avoid contact with the skin. Prolonged and/or repeated skin contact may result in mild irritation or redness.

Eye contact Avoid contact with eyes. Contact with eyes may cause irritation.

Inhalation Exposure to oil mist/fume/vapor may cause respiratory tract irritation.

Ingestion Contains ethylene or diethylene glycol, may cause central nervous system depression, liver and kidney damage. Harmful if swallowed.

Diethylene glycol
Harmful if swallowed. May cause kidney and liver damage. May depress the central nervous system.

Potential health effects

Routes of exposure Potential routes of exposure under normal use conditions are skin, eye contact and inhalation. Ingestion is not expected to be a primary route of exposure for this product under normal use conditions.

3. Composition / Information on Ingredients

Component/substance	CAS number	% by weight
Water	7732-18-5	70-97
Diethylene glycol	111-46-6	1-10
Humectant		1-10
Acrylic Polymer	Polymer	0.05-5
Pigment	Proprietary	0.05-5

4. First Aid Measures

First aid procedures

Eye contact	In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.
Skin contact	In case of contact, immediately remove contaminated clothing and flush skin with copious amounts of water. Wash clothing separately before reuse.
Inhalation	In case of accident by inhalation: remove casualty to fresh air and keep at rest. Get medical attention, if needed. If not breathing, give artificial respiration or give oxygen by trained personnel.
Ingestion	In the unlikely event of swallowing contact a physician or poison control center.

5. Fire Fighting Measures

Flash point and method	> 200 °F (> 93.3 °C) Closed Cup;
Hazardous combustion products	Carbon monoxide and carbon dioxide.

Extinguishing media

Suitable extinguishing media	Use any media suitable for the surrounding fires.

Protection of firefighters

Protective equipment and precautions for firefighters	Wear suitable protective equipment.

6. Accidental Release Measures

Personal precautions	Avoid contact with skin. Do not touch or walk through spilled material. Use personal protective equipment to minimize exposure to skin and eye. In the case of vapor formation use a respirator with an approved filter.
Environmental precautions	Do not flush into surface water or sanitary sewer system.
Methods for cleaning up	Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container. Clean up in accordance with all applicable regulations. Clean-up methods - small spillage; Flush area with flooding quantities of water.

7. Handling and Storage

Handling	Avoid contact with skin, eyes and clothing. Use personal protective equipment as required. Use only with adequate ventilation. When using, do not eat, drink or smoke.
Storage	Keep out of the reach of children. Keep tightly closed in a dry, cool and well-ventilated place. Store at room temperature.

8. Exposure Controls / Personal Protection

Personal protective equipment

General	Eye wash fountain and emergency showers are recommended.
Eye / face protection	Wear safety glasses; chemical goggles (if splashing is possible).
Skin protection	Wear appropriate chemical resistant clothing. Wear appropriate chemical resistant gloves.
Respiratory protection	Inhalation of vapor and ingestion are not expected to be significant routes of exposure for this product under normal use conditions. Provide adequate ventilation.
General hygeine considerations	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product. Launder contaminated clothing before reuse.

9. Physical & Chemical Properties

Color	Yellow
Odor threshold	Not available.
Physical state	Liquid.
Form	Aqueous solution.
pH	8
Melting point	< 32 °F (< 0 °C)
Freezing point	Not available.
Boiling point	> 212 °F (> 100 °C)
Flash point	> 200 °F (> 93.3 °C) Closed Cup;
Evaporation rate	Not available.
Flammability	Not available.
Flammability limits in air, upper, % by volume	Not available.
Flammability limits in air, lower, % by volume	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Specific gravity	1
Relative density	Not available.
Solubility (water)	Miscible
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
VOC	< 200 g/L

10. Chemical Stability & Reactivity Information

Chemical stability	Stable under normal storage conditions.
Incompatible materials	None established.
Possibility of hazardous reactions	Hazardous polymerisation does not occur

11. Toxicological Information

Acute toxicity	No information available.
Mutagenicity	Not mutagenic in AMES Test.

12. Ecological Information

Ecotoxicity	No data is available on the product itself.
Persistence and degradability	Not available.

13. Disposal Considerations

Disposal instructions	Dispose of in compliance with federal, state, and local regulations. Do not allow this material to drain into sewers/water supplies.

14. Transport Information

IATA

Not regulated as dangerous goods.

15. Regulatory Information

US federal regulations US EPA TSCA Inventory: All chemical substances in this product comply with all rules or orders under TSCA.

CERCLA (Superfund) reportable quantity

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No
Delayed Hazard - No
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

Section 302 extremely hazardous substance No

Section 311 hazardous chemical No

State regulations

US - Pennsylvania RTK - Hazardous Substances: Listed substance

Diethylene glycol (111-46-6)	Listed.

16. Other Information

HMIS® ratings Health: 1
Flammability: 1
Physical hazard: 0
Personal protection: B

NFPA ratings Health: 1
Flammability: 1
Instability: 0

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Revision 1

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Explanation of abbreviations

ACGIH	American Conference of Governmental Industrial Hygienists
CAS	Chemical Abstracts Service
CERCLA	Comprehensive Environmental Response Compensation and Liability Act
CFR	Code of Federal Regulations
COC	Cleveland Open Cup
DOT	Department of Transportation
EPCRA	Emergency Planning and Community Right-to-Know Act (aka SARA)
IARC	International Agency for Research on Cancer
NIOSH	National Institute for Occupational Safety and Health
NTP	National Toxicology Program
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
RCRA	Resource Conservation and Recovery Act
REC	Recommended
REL	Recommended Exposure Limit
SARA	Superfund Amendments and Reauthorization Act of 1986
STEL	Short-Term Exposure Limit
TCLP	Toxicity Characteristics Leaching Procedure
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act
VOC	Volatile Organic Compounds
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